

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---------------|---|------------------|---------|------------------|
| S1 | 12 | Strooper.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/31 13:06 |
| S2 | 9 | Annaert.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/31 10:46 |
| S3 | 2 | "5604131".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/08/31 13:07 |

(FILE 'HOME' ENTERED AT 15:35:18 ON 31 AUG 2005)

FILE 'MEDLINE, BIOSIS, EMBASE, SCISEARCH, CAPLUS' ENTERED AT 15:35:43 ON
31 AUG 2005

L1 19 S STROOPER
L2 4 S ANNAERT

10/662,651 Results

SEQ ID NO: 5

SUMMARIES

| Result No. | Query | | Length | DB | ID | Description |
|---------------|-------|-------|--------|----|----------|--------------------|
| | Score | Match | | | | |
| 1 | 48 | 100.0 | 11 | 6 | ABB82612 | Abb82612 Amyloid p |
| 2 | 48 | 100.0 | 11 | 8 | ADM72467 | Adm72467 Presenili |
| 3 | 48 | 100.0 | 15 | 6 | ABB82620 | Abb82620 Amyloid p |
| 4 | 48 | 100.0 | 15 | 8 | ADH89901 | Adh89901 Cell pene |
| 5 | 48 | 100.0 | 15 | 8 | ADH89873 | Adh89873 Cell pene |
| 6 | 48 | 100.0 | 15 | 8 | ADH89900 | Adh89900 Cell pene |
| 7 | 48 | 100.0 | 16 | 7 | ADG37093 | Adg37093 Gamma pro |
| 8 | 48 | 100.0 | 17 | 8 | ADG73684 | Adg73684 Human APP |
| 9 | 48 | 100.0 | 18 | 6 | ABB82615 | Abb82615 Amyloid p |
| 10 | 48 | 100.0 | 23 | 8 | ADM72461 | Adm72461 Presenili |
| 11 | 48 | 100.0 | 24 | 8 | ADM72463 | Adm72463 Presenili |
| 12 | 48 | 100.0 | 24 | 8 | ADM72458 | Adm72458 Presenili |
| 13 | 48 | 100.0 | 26 | 8 | ADM72460 | Adm72460 Presenili |
| 14 | 48 | 100.0 | 28 | 8 | ADM72454 | Adm72454 Presenili |
| 15 | 48 | 100.0 | 28 | 8 | ADM72431 | Adm72431 Presenili |

SUMMARIES

| Result No. | Query | | Length | DB | ID | Description |
|---------------|-------|-------|--------|----|------------------|--------------------|
| | Score | Match | | | | |
| 1 | 48 | 100.0 | 49 | 1 | US-08-123-702-45 | Sequence 45, Appl |
| 2 | 48 | 100.0 | 55 | 4 | US-09-823-153-10 | Sequence 10, Appl |
| 3 | 48 | 100.0 | 59 | 1 | US-08-484-969-3 | Sequence 3, Appli |
| 4 | 48 | 100.0 | 59 | 1 | US-08-472-627-3 | Sequence 3, Appli |
| 5 | 48 | 100.0 | 59 | 1 | US-08-388-463-3 | Sequence 3, Appli |
| 6 | 48 | 100.0 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 7 | 48 | 100.0 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 8 | 48 | 100.0 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 9 | 48 | 100.0 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 10 | 48 | 100.0 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 11 | 48 | 100.0 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 12 | 48 | 100.0 | 99 | 2 | US-08-422-333-3 | Sequence 3, Appli |
| 13 | 48 | 100.0 | 99 | 3 | US-08-339-708A-4 | Sequence 4, Appli |
| 14 | 48 | 100.0 | 99 | 3 | US-08-339-708A-6 | Sequence 6, Appli |
| 15 | 48 | 100.0 | 100 | 6 | 5187153-10 | Patent No. 5187153 |

ALIGNMENTS

RESULT 1

US-08-123-702-45

; Sequence 45, Application US/08123702

; Patent No. 5604131

; GENERAL INFORMATION:

; APPLICANT: Wadsworth, Samuel

; APPLICANT: Snyder, Benjamin

; APPLICANT: Reddy, Vermuri, B.

; APPLICANT: Wei, Chamer

; TITLE OF INVENTION: A cDNA Genomic Hybrid Sequence Encoding APP770

; Patent No. 5604131

; TITLE OF INVENTION: Containing a Genomic DNA Insert of the KI and OX-2 Regions

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patrea L. Pabst

; STREET: 2800 One Atlantic Center

; STREET: 1201 West Peachtree Street

; CITY: Atlanta

; STATE: GA

```

; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/123,702
; FILING DATE: 17-SEPT-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: TSI121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404)-873-8794
; TELEFAX: (404)-873-8795
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: mutation
; LOCATION: 29
; OTHER INFORMATION: "Val can be mutated to be Phe"
US-08-123-702-45

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Query Match          100.0%; Score 48; DB 1; Length 49;
Best Local Similarity 100.0%; Pred. No. 0.046;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 TVIVITLVMLK 11
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Db      26 TVIVITLVMLK 36

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SUMMARIES

| Result No. | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|--------|----|---------------------|-------------------|
| 1 | 48 | 100.0 | 11 | 16 | US-10-662-651A-5 | Sequence 5, Appli |
| 2 | 48 | 100.0 | 15 | 16 | US-10-662-651A-13 | Sequence 13, Appl |
| 3 | 48 | 100.0 | 18 | 16 | US-10-662-651A-8 | Sequence 8, Appli |
| 4 | 48 | 100.0 | 31 | 16 | US-10-662-651A-12 | Sequence 12, Appl |
| 5 | 48 | 100.0 | 34 | 16 | US-10-662-651A-7 | Sequence 7, Appli |
| 6 | 48 | 100.0 | 41 | 9 | US-09-864-761-36369 | Sequence 36369, A |
| 7 | 48 | 100.0 | 44 | 17 | US-10-700-922-5 | Sequence 5, Appli |
| 8 | 48 | 100.0 | 49 | 9 | US-09-864-761-33582 | Sequence 33582, A |
| 9 | 48 | 100.0 | 49 | 9 | US-09-864-761-34163 | Sequence 34163, A |
| 10 | 48 | 100.0 | 55 | 9 | US-09-823-153-10 | Sequence 10, Appl |
| 11 | 48 | 100.0 | 55 | 16 | US-10-713-981-10 | Sequence 10, Appl |
| 12 | 48 | 100.0 | 55 | 17 | US-10-849-423-6 | Sequence 6, Appli |
| 13 | 48 | 100.0 | 59 | 9 | US-09-975-932-1 | Sequence 1, Appli |
| 14 | 48 | 100.0 | 59 | 14 | US-10-084-380A-1 | Sequence 1, Appli |
| 15 | 48 | 100.0 | 70 | 9 | US-09-155-076-14 | Sequence 14, Appl |

SUMMARIES

| Result No. | Score | Match | Length | DB | ID | Description |
|------------|-------|-------|--------|----|--------|--------------------|
| 1 | 48 | 100.0 | 82 | 2 | PQ0438 | Alzheimer's diseas |
| 2 | 48 | 100.0 | 695 | 1 | A49795 | Alzheimer's diseas |
| 3 | 48 | 100.0 | 695 | 2 | A27485 | Alzheimer's diseas |
| 4 | 48 | 100.0 | 695 | 2 | S00550 | Alzheimer's diseas |
| 5 | 48 | 100.0 | 747 | 2 | JH0773 | Alzheimer's diseas |

| | | | | | | |
|----|----|-------|-----|---|--------|--------------------|
| 6 | 48 | 100.0 | 770 | 1 | QRHUA4 | Alzheimer's diseas |
| 7 | 43 | 89.6 | 57 | 2 | A60045 | Alzheimer's diseas |
| 8 | 43 | 89.6 | 57 | 2 | F60045 | Alzheimer's diseas |
| 9 | 43 | 89.6 | 57 | 2 | D60045 | Alzheimer's diseas |
| 10 | 43 | 89.6 | 57 | 2 | E60045 | Alzheimer's diseas |
| 11 | 43 | 89.6 | 57 | 2 | G60045 | Alzheimer's diseas |
| 12 | 43 | 89.6 | 57 | 2 | B60045 | Alzheimer's diseas |
| 13 | 41 | 85.4 | 191 | 2 | A35981 | sperm membrane pro |
| 14 | 41 | 85.4 | 511 | 2 | JC1404 | CDEI-box DNA-bindi |
| 15 | 41 | 85.4 | 751 | 2 | A49974 | beta-amyloid precu |

SUMMARIES

| Result No. | % Query | | | DB | ID | Description |
|---------------|------------|-------|--------|----|----------|--------------------|
| | Score | Match | Length | | | |
| 1 | 48 | 100.0 | 49 | 2 | O97917 | O97917 bos taurus |
| 2 | 48 | 100.0 | 58 | 1 | A4_RABIT | Q28748 oryctolagus |
| 3 | 48 | 100.0 | 58 | 1 | A4_SHEEP | Q28757 ovis aries |
| 4 | 48 | 100.0 | 59 | 1 | A4_BOVIN | Q28053 bos taurus |
| 5 | 48 | 100.0 | 79 | 2 | O35463 | O35463 cricetulus |
| 6 | 48 | 100.0 | 113 | 2 | Q8JH58 | Q8jh58 chelydra se |
| 7 | 48 | 100.0 | 218 | 2 | Q8BPV5 | Q8bpv5 mus musculu |
| 8 | 48 | 100.0 | 384 | 2 | Q8BPC7 | Q8bpc7 mus musculu |
| 9 | 48 | 100.0 | 534 | 2 | O93296 | O93296 gallus gall |
| 10 | 48 | 100.0 | 693 | 2 | Q98SG0 | Q98sg0 xenopus lae |
| 11 | 48 | 100.0 | 695 | 2 | Q6RH29 | Q6rh29 canis famil |
| 12 | 48 | 100.0 | 695 | 2 | Q98SF9 | Q98sf9 xenopus lae |
| 13 | 48 | 100.0 | 695 | 2 | Q7ZXQ0 | Q7zxq0 xenopus lae |
| 14 | 48 | 100.0 | 695 | 2 | Q9DGJ8 | Q9dgj8 gallus gall |
| 15 | 48 | 100.0 | 699 | 2 | O57394 | O57394 narke japon |

10/662,651 Results
SEQ ID NO: 7

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|----------|--------------------|
| 1 | 148 | 92.5 | 34 | 6 | ABB82614 | Abb82614 Amyloid p |
| 2 | 148 | 92.5 | 34 | 8 | ADM72434 | Adm72434 Presenili |
| 3 | 148 | 92.5 | 36 | 8 | ADM72440 | Adm72440 Presenili |
| 4 | 148 | 92.5 | 38 | 8 | ADM72441 | Adm72441 Presenili |
| 5 | 147 | 91.9 | 34 | 8 | ADM72445 | Adm72445 Presenili |
| 6 | 145 | 90.6 | 34 | 8 | ADM72443 | Adm72443 Presenili |
| 7 | 145 | 90.6 | 34 | 8 | ADM72446 | Adm72446 Presenili |
| 8 | 143 | 89.4 | 34 | 8 | ADM72444 | Adm72444 Presenili |
| 9 | 142 | 88.8 | 34 | 8 | ADM72442 | Adm72442 Presenili |
| 10 | 136 | 85.0 | 31 | 6 | ABB82619 | Abb82619 Amyloid p |
| 11 | 134 | 83.8 | 34 | 8 | ADM72447 | Adm72447 Presenili |
| 12 | 133.5 | 83.4 | 33 | 8 | ADM72436 | Adm72436 Presenili |
| 13 | 132 | 82.5 | 30 | 8 | ADM72439 | Adm72439 Presenili |
| 14 | 128 | 80.0 | 32 | 8 | ADM72435 | Adm72435 Presenili |
| 15 | 127 | 79.4 | 29 | 8 | ADM72438 | Adm72438 Presenili |

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|------------------|--------------------|
| 1 | 79 | 49.4 | 49 | 1 | US-08-123-702-45 | Sequence 45, Appl |
| 2 | 79 | 49.4 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 3 | 79 | 49.4 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 4 | 79 | 49.4 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 5 | 79 | 49.4 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 6 | 79 | 49.4 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 7 | 79 | 49.4 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 8 | 79 | 49.4 | 99 | 2 | US-08-422-333-3 | Sequence 3, Appli |
| 9 | 79 | 49.4 | 99 | 3 | US-08-339-708A-4 | Sequence 4, Appli |
| 10 | 79 | 49.4 | 99 | 3 | US-08-339-708A-6 | Sequence 6, Appli |
| 11 | 79 | 49.4 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 12 | 79 | 49.4 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 13 | 79 | 49.4 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 14 | 79 | 49.4 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 15 | 79 | 49.4 | 103 | 2 | US-08-404-831-2 | Sequence 2, Appli |

RESULT 1

US-08-123-702-45

; Sequence 45, Application US/08123702

; Patent No. 5604131

; GENERAL INFORMATION:

; APPLICANT: Wadsworth, Samuel

; APPLICANT: Snyder, Benjamin

; APPLICANT: Reddy, Vermuri, B.

; APPLICANT: Wei, Chamer

; TITLE OF INVENTION: A cDNA Genomic Hybrid Sequence Encoding APP770

; Patent No. 5604131

; TITLE OF INVENTION: Containing a Genomic DNA Insert of the KI and OX-2 Regions

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patrea L. Pabst

; STREET: 2800 One Atlantic Center

; STREET: 1201 West Peachtree Street

; CITY: Atlanta

; STATE: GA

; COUNTRY: USA

; ZIP: 30309-3450

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/123,702
;      FILING DATE:  17-SEPT-1993
;      CLASSIFICATION:  435
;      ATTORNEY/AGENT INFORMATION:
;      NAME:  Pabst, Patrea L.
;      REGISTRATION NUMBER:  31,284
;      REFERENCE/DOCKET NUMBER:  TSI121
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404)-873-8794
;      TELEFAX:  (404)-873-8795
;      INFORMATION FOR SEQ ID NO:  45:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH:  49 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;      MOLECULE TYPE:  protein
;      FEATURE:
;      NAME/KEY:  mutation
;      LOCATION:  29
;      OTHER INFORMATION:  "Val can be mutated to be Phe"
US-08-123-702-45

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Query Match          49.4%; Score 79; DB 1; Length 49;
Best Local Similarity 100.0%; Pred. No. 0.00018;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 VVIATVIVITLVMLKKKQ 18
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Db      22 VVIATVIVITLVMLKKKQ 39

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SUMMARIES

| Result No. | Query | | DB | ID | Description |
|------------|-------|--------------|-----|----|--------------------|
| | Score | Match Length | | | |
| 1 | 79 | 49.4 | 49 | 2 | O97917 bos taurus |
| 2 | 79 | 49.4 | 79 | 2 | O35463 cricetulus |
| 3 | 79 | 49.4 | 113 | 2 | Q8JH58 chelydra se |
| 4 | 79 | 49.4 | 218 | 2 | Q8BPV5 mus musculu |
| 5 | 79 | 49.4 | 384 | 2 | Q8BPC7 mus musculu |
| 6 | 79 | 49.4 | 534 | 2 | O93296 gallus gall |
| 7 | 79 | 49.4 | 693 | 2 | Q98SG0 xenopus lae |
| 8 | 79 | 49.4 | 695 | 2 | Q6RH29 canis famil |
| 9 | 79 | 49.4 | 695 | 2 | Q98SF9 xenopus lae |
| 10 | 79 | 49.4 | 695 | 2 | Q7ZXQ0 xenopus lae |
| 11 | 79 | 49.4 | 695 | 2 | Q9DGJ8 gallus gall |
| 12 | 79 | 49.4 | 699 | 2 | O57394 narke japon |
| 13 | 79 | 49.4 | 733 | 2 | Q6P6Q5 rattus norv |
| 14 | 79 | 49.4 | 747 | 2 | Q91963 xenopus. ap |
| 15 | 79 | 49.4 | 749 | 2 | Q6NRR1 xenopus lae |

SUMMARIES

| Result No. | Query | | DB | ID | Description |
|------------|-------|--------------|-----|----|---------------------------|
| | Score | Match Length | | | |
| 1 | 79 | 49.4 | 82 | 2 | PQ0438 Alzheimer's diseas |
| 2 | 79 | 49.4 | 695 | 1 | A49795 Alzheimer's diseas |
| 3 | 79 | 49.4 | 695 | 2 | A27485 Alzheimer's diseas |
| 4 | 79 | 49.4 | 695 | 2 | S00550 Alzheimer's diseas |
| 5 | 79 | 49.4 | 747 | 2 | JH0773 Alzheimer's diseas |
| 6 | 79 | 49.4 | 770 | 1 | QRHUA4 Alzheimer's diseas |
| 7 | 65 | 40.6 | 191 | 2 | A35981 sperm membrane pro |
| 8 | 65 | 40.6 | 511 | 2 | JC1404 CDEI-box DNA-bindi |
| 9 | 65 | 40.6 | 751 | 2 | A49974 beta-amyloid precu |
| 10 | 65 | 40.6 | 763 | 2 | A49321 amyloid beta (A4) |

| | | | | | | |
|----|----|------|------|---|--------|--------------------|
| 11 | 65 | 40.6 | 765 | 2 | S42880 | amyloid precursor- |
| 12 | 61 | 38.1 | 1171 | 2 | S57829 | genome polyprotein |
| 13 | 61 | 38.1 | 3898 | 1 | GNWVHB | genome polyprotein |
| 14 | 61 | 38.1 | 3898 | 2 | S57437 | genome polyprotein |
| 15 | 59 | 36.9 | 57 | 2 | A60045 | Alzheimer's diseas |

SUMMARIES

| Result | | | % | | | | | | |
|--------|-------|-------|--------|----|--------|--------------------|--|--|--|
| No. | Score | Match | Length | DB | ID | Description | | | |
| 1 | 79 | 49.4 | 49 | 2 | O97917 | O97917 bos taurus | | | |
| 2 | 79 | 49.4 | 79 | 2 | O35463 | O35463 cricetulus | | | |
| 3 | 79 | 49.4 | 113 | 2 | Q8JH58 | Q8jh58 chelydra se | | | |
| 4 | 79 | 49.4 | 218 | 2 | Q8BPV5 | Q8bpv5 mus musculu | | | |
| 5 | 79 | 49.4 | 384 | 2 | Q8BPC7 | Q8bpc7 mus musculu | | | |
| 6 | 79 | 49.4 | 534 | 2 | O93296 | O93296 gallus gall | | | |
| 7 | 79 | 49.4 | 693 | 2 | Q98SG0 | Q98sg0 xenopus lae | | | |
| 8 | 79 | 49.4 | 695 | 2 | Q6RH29 | Q6rh29 canis famil | | | |
| 9 | 79 | 49.4 | 695 | 2 | Q98SF9 | Q98sf9 xenopus lae | | | |
| 10 | 79 | 49.4 | 695 | 2 | Q7ZXQ0 | Q7zxq0 xenopus lae | | | |
| 11 | 79 | 49.4 | 695 | 2 | Q9DGJ8 | Q9dgj8 gallus gall | | | |
| 12 | 79 | 49.4 | 699 | 2 | O57394 | O57394 narke japon | | | |
| 13 | 79 | 49.4 | 733 | 2 | Q6P6Q5 | Q6p6q5 rattus norv | | | |
| 14 | 79 | 49.4 | 747 | 2 | Q91963 | Q91963 xenopus. ap | | | |
| 15 | 79 | 49.4 | 749 | 2 | Q6NRR1 | Q6nrr1 xenopus lae | | | |

10/662,651 Results

SEQ ID NO: 8

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|----------|--------------------|
| 1 | 79 | 100.0 | 18 | 6 | ABB82615 | Abb82615 Amyloid p |
| 2 | 79 | 100.0 | 34 | 6 | ABB82614 | Abb82614 Amyloid p |
| 3 | 79 | 100.0 | 34 | 8 | ADM72434 | Adm72434 Presenili |
| 4 | 79 | 100.0 | 36 | 8 | ADM72440 | Adm72440 Presenili |
| 5 | 79 | 100.0 | 38 | 8 | ADM72441 | Adm72441 Presenili |
| 6 | 79 | 100.0 | 41 | 4 | AAM16658 | Aam16658 Peptide # |
| 7 | 79 | 100.0 | 41 | 4 | ABB35642 | Abb35642 Peptide # |
| 8 | 79 | 100.0 | 41 | 4 | AAM29142 | Aam29142 Peptide # |
| 9 | 79 | 100.0 | 41 | 4 | ABB30475 | Abb30475 Peptide # |
| 10 | 79 | 100.0 | 41 | 4 | ABB21071 | Abb21071 Protein # |
| 11 | 79 | 100.0 | 41 | 4 | AAM56458 | Aam56458 Human bra |
| 12 | 79 | 100.0 | 41 | 4 | AAM04374 | Aam04374 Peptide # |
| 13 | 79 | 100.0 | 41 | 5 | ABG38416 | Abg38416 Human pep |
| 14 | 79 | 100.0 | 44 | 2 | AAW53985 | Aaw53985 Human ALZ |
| 15 | 79 | 100.0 | 49 | 2 | AAR35087 | Aar35087 Human amy |

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|------------------|--------------------|
| 1 | 79 | 100.0 | 49 | 1 | US-08-123-702-45 | Sequence 45, Appl |
| 2 | 79 | 100.0 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 3 | 79 | 100.0 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 4 | 79 | 100.0 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 5 | 79 | 100.0 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 6 | 79 | 100.0 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 7 | 79 | 100.0 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 8 | 79 | 100.0 | 99 | 2 | US-08-422-333-3 | Sequence 3, Appli |
| 9 | 79 | 100.0 | 99 | 3 | US-08-339-708A-4 | Sequence 4, Appli |
| 10 | 79 | 100.0 | 99 | 3 | US-08-339-708A-6 | Sequence 6, Appli |
| 11 | 79 | 100.0 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 12 | 79 | 100.0 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 13 | 79 | 100.0 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 14 | 79 | 100.0 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 15 | 79 | 100.0 | 103 | 2 | US-08-404-831-2 | Sequence 2, Appli |

ALIGNMENTS

RESULT 1

US-08-123-702-45

; Sequence 45, Application US/08123702

; Patent No. 5604131

; GENERAL INFORMATION:

; APPLICANT: Wadsworth, Samuel

; APPLICANT: Snyder, Benjamin

; APPLICANT: Reddy, Vermuri, B.

; APPLICANT: Wei, Chamer

; TITLE OF INVENTION: A cDNA Genomic Hybrid Sequence Encoding APP770

; Patent No. 5604131

; TITLE OF INVENTION: Containing a Genomic DNA Insert of the KI and OX-2 Regions

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patrea L. Pabst

; STREET: 2800 One Atlantic Center

; STREET: 1201 West Peachtree Street

; CITY: Atlanta

```

; STATE: GA
; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/123,702
; FILING DATE: 17-SEPT-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: TSI121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404)-873-8794
; TELEFAX: (404)-873-8795
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: mutation
; LOCATION: 29
; OTHER INFORMATION: "Val can be mutated to be Phe"
US-08-123-702-45

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Query Match          100.0%; Score 79; DB 1; Length 49;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 VVIATVIVITLVMLKKKQ 18
        |||||
Db      22 VVIATVIVITLVMLKKKQ 39

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SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|---------------------|-------------------|
| 1 | 79 | 100.0 | 18 | 16 | US-10-662-651A-8 | Sequence 8, Appli |
| 2 | 79 | 100.0 | 34 | 16 | US-10-662-651A-7 | Sequence 7, Appli |
| 3 | 79 | 100.0 | 41 | 9 | US-09-864-761-36369 | Sequence 36369, A |
| 4 | 79 | 100.0 | 44 | 17 | US-10-700-922-5 | Sequence 5, Appli |
| 5 | 79 | 100.0 | 49 | 9 | US-09-864-761-33582 | Sequence 33582, A |
| 6 | 79 | 100.0 | 49 | 9 | US-09-864-761-34163 | Sequence 34163, A |
| 7 | 79 | 100.0 | 79 | 17 | US-10-700-922-3 | Sequence 3, Appli |
| 8 | 79 | 100.0 | 99 | 14 | US-10-183-119-2 | Sequence 2, Appli |
| 9 | 79 | 100.0 | 99 | 17 | US-10-486-265-3 | Sequence 3, Appli |
| 10 | 79 | 100.0 | 100 | 9 | US-09-794-975-4 | Sequence 4, Appli |
| 11 | 79 | 100.0 | 100 | 15 | US-10-275-025-1 | Sequence 1, Appli |
| 12 | 79 | 100.0 | 100 | 15 | US-10-275-025-6 | Sequence 6, Appli |
| 13 | 79 | 100.0 | 100 | 15 | US-10-275-025-7 | Sequence 7, Appli |
| 14 | 79 | 100.0 | 100 | 17 | US-10-849-423-4 | Sequence 4, Appli |
| 15 | 79 | 100.0 | 100 | 17 | US-10-486-265-5 | Sequence 5, Appli |

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|--------|--------------------|
| 1 | 79 | 100.0 | 82 | 2 | PQ0438 | Alzheimer's diseas |
| 2 | 79 | 100.0 | 695 | 1 | A49795 | Alzheimer's diseas |
| 3 | 79 | 100.0 | 695 | 2 | A27485 | Alzheimer's diseas |
| 4 | 79 | 100.0 | 695 | 2 | S00550 | Alzheimer's diseas |

| | | | | | | |
|----|----|-------|-----|---|--------|--------------------|
| 5 | 79 | 100.0 | 747 | 2 | JH0773 | Alzheimer's diseas |
| 6 | 79 | 100.0 | 770 | 1 | QRHUA4 | Alzheimer's diseas |
| 7 | 65 | 82.3 | 191 | 2 | A35981 | sperm membrane pro |
| 8 | 65 | 82.3 | 511 | 2 | JC1404 | CDEI-box DNA-bindi |
| 9 | 65 | 82.3 | 751 | 2 | A49974 | beta-amyloid precu |
| 10 | 65 | 82.3 | 763 | 2 | A49321 | amyloid beta (A4) |
| 11 | 65 | 82.3 | 765 | 2 | S42880 | amyloid precursor- |
| 12 | 59 | 74.7 | 57 | 2 | A60045 | Alzheimer's diseas |
| 13 | 59 | 74.7 | 57 | 2 | F60045 | Alzheimer's diseas |
| 14 | 59 | 74.7 | 57 | 2 | D60045 | Alzheimer's diseas |
| 15 | 59 | 74.7 | 57 | 2 | E60045 | Alzheimer's diseas |

SUMMARIES

| Result No. | Query | | | DB | ID | Description |
|---------------|-------|-------|--------|----|--------|---------------------|
| | Score | Match | Length | | | |
| 1 | 79 | 100.0 | 49 | 2 | Q97917 | Q97917 bos taurus |
| 2 | 79 | 100.0 | 79 | 2 | O35463 | O35463 cricetulus |
| 3 | 79 | 100.0 | 113 | 2 | Q8JH58 | Q8jh58 chelydra se |
| 4 | 79 | 100.0 | 218 | 2 | Q8BPV5 | Q8bpv5 mus musculu |
| 5 | 79 | 100.0 | 384 | 2 | Q8BPC7 | Q8bpc7 mus musculu |
| 6 | 79 | 100.0 | 534 | 2 | O93296 | O93296 gallus gall |
| 7 | 79 | 100.0 | 693 | 2 | Q98SG0 | Q98sg0 xenopus lae |
| 8 | 79 | 100.0 | 695 | 2 | Q6RH29 | Q6rh29 canis famil |
| 9 | 79 | 100.0 | 695 | 2 | Q98SF9 | Q98sf9 xenopus lae |
| 10 | 79 | 100.0 | 695 | 2 | Q7ZXQ0 | Q7zxq0 xenopus lae |
| 11 | 79 | 100.0 | 695 | 2 | Q9DGJ8 | Q9d gj8 gallus gall |
| 12 | 79 | 100.0 | 699 | 2 | O57394 | O57394 narke japon |
| 13 | 79 | 100.0 | 733 | 2 | Q6P6Q5 | Q6p6q5 rattus norv |
| 14 | 79 | 100.0 | 747 | 2 | Q91963 | Q91963 xenopus. ap |
| 15 | 79 | 100.0 | 749 | 2 | Q6NRR1 | Q6nrr1 xenopus lae |

10/662,651 Results

SEQ ID NO: 12

SUMMARIES

| Result No. | Score | Query | | DB | ID | Description |
|---------------|-------|-------|--------|----|----------|--------------------|
| | | Match | Length | | | |
| 1 | 138 | 94.5 | 31 | 6 | ABB82619 | Abb82619 Amyloid p |
| 2 | 138 | 94.5 | 34 | 6 | ABB82614 | Abb82614 Amyloid p |
| 3 | 138 | 94.5 | 34 | 8 | ADM72434 | Adm72434 Presenili |
| 4 | 138 | 94.5 | 36 | 8 | ADM72440 | Adm72440 Presenili |
| 5 | 138 | 94.5 | 38 | 8 | ADM72441 | Adm72441 Presenili |
| 6 | 137 | 93.8 | 34 | 8 | ADM72445 | Adm72445 Presenili |
| 7 | 135 | 92.5 | 34 | 8 | ADM72443 | Adm72443 Presenili |
| 8 | 135 | 92.5 | 34 | 8 | ADM72446 | Adm72446 Presenili |
| 9 | 134 | 91.8 | 30 | 8 | ADM72439 | Adm72439 Presenili |
| 10 | 133 | 91.1 | 34 | 8 | ADM72444 | Adm72444 Presenili |
| 11 | 132 | 90.4 | 34 | 8 | ADM72442 | Adm72442 Presenili |
| 12 | 129 | 88.4 | 29 | 8 | ADM72438 | Adm72438 Presenili |
| 13 | 124 | 84.9 | 34 | 8 | ADM72447 | Adm72447 Presenili |
| 14 | 122.5 | 83.9 | 33 | 8 | ADM72436 | Adm72436 Presenili |
| 15 | 117 | 80.1 | 32 | 8 | ADM72435 | Adm72435 Presenili |

SUMMARIES

| Result No. | Score | Query | | DB | ID | Description |
|---------------|-------|-------|--------|----|------------------|--------------------|
| | | Match | Length | | | |
| 1 | 67 | 45.9 | 49 | 1 | US-08-123-702-45 | Sequence 45, Appl |
| 2 | 67 | 45.9 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 3 | 67 | 45.9 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 4 | 67 | 45.9 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 5 | 67 | 45.9 | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 6 | 67 | 45.9 | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 7 | 67 | 45.9 | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 8 | 67 | 45.9 | 99 | 2 | US-08-422-333-3 | Sequence 3, Appli |
| 9 | 67 | 45.9 | 99 | 3 | US-08-339-708A-4 | Sequence 4, Appli |
| 10 | 67 | 45.9 | 99 | 3 | US-08-339-708A-6 | Sequence 6, Appli |
| 11 | 67 | 45.9 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 12 | 67 | 45.9 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 13 | 67 | 45.9 | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 14 | 67 | 45.9 | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 15 | 67 | 45.9 | 103 | 2 | US-08-404-831-2 | Sequence 2, Appli |

ALIGNMENTS

RESULT 1

US-08-123-702-45

; Sequence 45, Application US/08123702

; Patent No. 5604131

; GENERAL INFORMATION:

; APPLICANT: Wadsworth, Samuel

; APPLICANT: Snyder, Benjamin

; APPLICANT: Reddy, Vermuri, B.

; APPLICANT: Wei, Chamer

; TITLE OF INVENTION: A cDNA Genomic Hybrid Sequence Encoding APP770

; Patent No. 5604131

; TITLE OF INVENTION: Containing a Genomic DNA Insert of the KI and OX-2 Regions

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patrea L. Pabst

; STREET: 2800 One Atlantic Center

; STREET: 1201 West Peachtree Street

; CITY: Atlanta

; STATE: GA

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; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/123,702
; FILING DATE: 17-SEPT-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: TSI121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404)-873-8794
; TELEFAX: (404)-873-8795
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: mutation
; LOCATION: 29
; OTHER INFORMATION: "Val can be mutated to be Phe"
US-08-123-702-45

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Query Match          45.9%; Score 67; DB 1; Length 49;
Best Local Similarity 100.0%; Pred. No. 0.0038;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      25 ATVIVITLVMLKKKQ 39

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SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
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| 1 | 146 | 100.0 | 31 | 16 | US-10-662-651A-12 | Sequence 12, Appl |
| 2 | 129 | 88.4 | 34 | 16 | US-10-662-651A-7 | Sequence 7, Appli |
| 3 | 71 | 48.6 | 16 | 15 | US-10-335-057A-39 | Sequence 39, Appl |
| 4 | 71 | 48.6 | 16 | 16 | US-10-662-651A-20 | Sequence 20, Appl |
| 5 | 71 | 48.6 | 24 | 16 | US-10-662-651A-16 | Sequence 16, Appl |
| 6 | 71 | 48.6 | 28 | 16 | US-10-662-651A-17 | Sequence 17, Appl |
| 7 | 71 | 48.6 | 32 | 16 | US-10-662-651A-10 | Sequence 10, Appl |
| 8 | 67 | 45.9 | 15 | 16 | US-10-662-651A-13 | Sequence 13, Appl |
| 9 | 67 | 45.9 | 18 | 16 | US-10-662-651A-8 | Sequence 8, Appli |
| 10 | 67 | 45.9 | 41 | 9 | US-09-864-761-36369 | Sequence 36369, A |
| 11 | 67 | 45.9 | 44 | 17 | US-10-700-922-5 | Sequence 5, Appli |
| 12 | 67 | 45.9 | 49 | 9 | US-09-864-761-33582 | Sequence 33582, A |
| 13 | 67 | 45.9 | 49 | 9 | US-09-864-761-34163 | Sequence 34163, A |
| 14 | 67 | 45.9 | 79 | 17 | US-10-700-922-3 | Sequence 3, Appli |
| 15 | 67 | 45.9 | 99 | 14 | US-10-183-119-2 | Sequence 2, Appli |

SUMMARIES

| Result No. | Score | % Match | Query Length | DB | ID | Description |
|------------|-------|---------|--------------|----|--------|--------------------|
| 1 | 67 | 45.9 | 82 | 2 | PQ0438 | Alzheimer's diseas |
| 2 | 67 | 45.9 | 695 | 1 | A49795 | Alzheimer's diseas |
| 3 | 67 | 45.9 | 695 | 2 | A27485 | Alzheimer's diseas |
| 4 | 67 | 45.9 | 695 | 2 | S00550 | Alzheimer's diseas |

| | | | | | | |
|----|----|------|------|---|--------|--------------------|
| 5 | 67 | 45.9 | 747 | 2 | JH0773 | Alzheimer's diseas |
| 6 | 67 | 45.9 | 770 | 1 | QRHUA4 | Alzheimer's diseas |
| 7 | 60 | 41.1 | 1171 | 2 | S57829 | genome polyprotein |
| 8 | 60 | 41.1 | 3898 | 1 | GNWVHB | genome polyprotein |
| 9 | 60 | 41.1 | 3898 | 2 | S57437 | genome polyprotein |
| 10 | 57 | 39.0 | 191 | 2 | A35981 | sperm membrane pro |
| 11 | 57 | 39.0 | 511 | 2 | JC1404 | CDEI-box DNA-bindi |
| 12 | 57 | 39.0 | 751 | 2 | A49974 | beta-amyloid precu |
| 13 | 57 | 39.0 | 763 | 2 | A49321 | amyloid beta (A4) |
| 14 | 57 | 39.0 | 765 | 2 | S42880 | amyloid precursor- |
| 15 | 55 | 37.7 | 60 | 2 | H87593 | hypothetical prote |

SUMMARIES

| Result | | Query | | | DB | ID | Description |
|--------|-------|-------|--------|---|--------|--------|-------------|
| No. | Score | Match | Length | | | | |
| 1 | 67 | 45.9 | 49 | 2 | O97917 | O97917 | bos taurus |
| 2 | 67 | 45.9 | 79 | 2 | O35463 | O35463 | cricketulus |
| 3 | 67 | 45.9 | 113 | 2 | Q8JH58 | Q8jh58 | chelydra se |
| 4 | 67 | 45.9 | 218 | 2 | Q8BPV5 | Q8bpv5 | mus musculu |
| 5 | 67 | 45.9 | 384 | 2 | Q8BPC7 | Q8bpc7 | mus musculu |
| 6 | 67 | 45.9 | 534 | 2 | O93296 | O93296 | gallus gall |
| 7 | 67 | 45.9 | 693 | 2 | Q98SG0 | Q98sg0 | xenopus lae |
| 8 | 67 | 45.9 | 695 | 2 | Q6RH29 | Q6rh29 | canis famil |
| 9 | 67 | 45.9 | 695 | 2 | Q98SF9 | Q98sf9 | xenopus lae |
| 10 | 67 | 45.9 | 695 | 2 | Q7ZXQ0 | Q7zxq0 | xenopus lae |
| 11 | 67 | 45.9 | 695 | 2 | Q9DGJ8 | Q9dgj8 | gallus gall |
| 12 | 67 | 45.9 | 699 | 2 | O57394 | O57394 | narke japon |
| 13 | 67 | 45.9 | 733 | 2 | Q6P6Q5 | Q6p6q5 | rattus norv |
| 14 | 67 | 45.9 | 747 | 2 | Q91963 | Q91963 | xenopus. ap |
| 15 | 67 | 45.9 | 749 | 2 | Q6NRR1 | Q6nrr1 | xenopus lae |

10/662,651 Results

SEQ ID NO: 13

SUMMARIES

| Result No. | Score | % Query | | Length | DB | ID | Description |
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| 3 | 67 | 100.0 | | 31 | 6 | ABB82619 | Abb82619 Amyloid p |
| 4 | 67 | 100.0 | | 34 | 6 | ABB82614 | Abb82614 Amyloid p |
| 5 | 67 | 100.0 | | 34 | 8 | ADM72434 | Adm72434 Presenili |
| 6 | 67 | 100.0 | | 36 | 8 | ADM72440 | Adm72440 Presenili |
| 7 | 67 | 100.0 | | 38 | 8 | ADM72441 | Adm72441 Presenili |
| 8 | 67 | 100.0 | | 41 | 4 | AAM16658 | Aam16658 Peptide # |
| 9 | 67 | 100.0 | | 41 | 4 | ABB35642 | Abb35642 Peptide # |
| 10 | 67 | 100.0 | | 41 | 4 | AAM29142 | Aam29142 Peptide # |
| 11 | 67 | 100.0 | | 41 | 4 | ABB30475 | Abb30475 Peptide # |
| 12 | 67 | 100.0 | | 41 | 4 | ABB21071 | Abb21071 Protein # |
| 13 | 67 | 100.0 | | 41 | 4 | AAM56458 | Aam56458 Human bra |
| 14 | 67 | 100.0 | | 41 | 4 | AAM04374 | Aam04374 Peptide # |
| 15 | 67 | 100.0 | | 41 | 5 | ABG38416 | Abg38416 Human pep |

SUMMARIES

| Result No. | Score | % Query | | Length | DB | ID | Description |
|---------------|-------|---------|--|--------|----|------------------|--------------------|
| | | Match | | | | | |
| 1 | 67 | 100.0 | | 49 | 1 | US-08-123-702-45 | Sequence 45, Appl |
| 2 | 67 | 100.0 | | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 3 | 67 | 100.0 | | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 4 | 67 | 100.0 | | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 5 | 67 | 100.0 | | 97 | 6 | 5187153-8 | Patent No. 5187153 |
| 6 | 67 | 100.0 | | 97 | 6 | 5220013-8 | Patent No. 5220013 |
| 7 | 67 | 100.0 | | 97 | 6 | 5223482-8 | Patent No. 5223482 |
| 8 | 67 | 100.0 | | 99 | 2 | US-08-422-333-3 | Sequence 3, Appli |
| 9 | 67 | 100.0 | | 99 | 3 | US-08-339-708A-4 | Sequence 4, Appli |
| 10 | 67 | 100.0 | | 99 | 3 | US-08-339-708A-6 | Sequence 6, Appli |
| 11 | 67 | 100.0 | | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 12 | 67 | 100.0 | | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 13 | 67 | 100.0 | | 100 | 6 | 5187153-10 | Patent No. 5187153 |
| 14 | 67 | 100.0 | | 100 | 6 | 5220013-10 | Patent No. 5220013 |
| 15 | 67 | 100.0 | | 103 | 2 | US-08-404-831-2 | Sequence 2, Appli |

ALIGNMENTS

RESULT 1

US-08-123-702-45

; Sequence 45, Application US/08123702

; Patent No. 5604131

; GENERAL INFORMATION:

; APPLICANT: Wadsworth, Samuel

; APPLICANT: Snyder, Benjamin

; APPLICANT: Reddy, Vermuri, B.

; APPLICANT: Wei, Chamer

; TITLE OF INVENTION: A cDNA Genomic Hybrid Sequence Encoding APP770

; Patent No. 5604131

; TITLE OF INVENTION: Containing a Genomic DNA Insert of the KI and OX-2 Regions

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Patrea L. Pabst

; STREET: 2800 One Atlantic Center

; STREET: 1201 West Peachtree Street

; CITY: Atlanta

; STATE: GA

; COUNTRY: USA

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; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/123,702
; FILING DATE: 17-SEPT-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: TSI121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404)-873-8794
; TELEFAX: (404)-873-8795
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 49 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: mutation
; LOCATION: 29
; OTHER INFORMATION: "Val can be mutated to be Phe"
US-08-123-702-45

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Query Match          100.0%; Score 67; DB 1; Length 49;
Best Local Similarity 100.0%; Pred. No. 0.00012;
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Qy      1 ATVIVITLVMLKKKQ 15
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Db      25 ATVIVITLVMLKKKQ 39

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SUMMARIES

| Result No. | % Query | | | | | Description |
|------------|---------|-------|--------|----|---------------------|-------------------|
| | Score | Match | Length | DB | ID | |
| 1 | 67 | 100.0 | 15 | 16 | US-10-662-651A-13 | Sequence 13, Appl |
| 2 | 67 | 100.0 | 18 | 16 | US-10-662-651A-8 | Sequence 8, Appli |
| 3 | 67 | 100.0 | 31 | 16 | US-10-662-651A-12 | Sequence 12, Appl |
| 4 | 67 | 100.0 | 34 | 16 | US-10-662-651A-7 | Sequence 7, Appli |
| 5 | 67 | 100.0 | 41 | 9 | US-09-864-761-36369 | Sequence 36369, A |
| 6 | 67 | 100.0 | 44 | 17 | US-10-700-922-5 | Sequence 5, Appli |
| 7 | 67 | 100.0 | 49 | 9 | US-09-864-761-33582 | Sequence 33582, A |
| 8 | 67 | 100.0 | 49 | 9 | US-09-864-761-34163 | Sequence 34163, A |
| 9 | 67 | 100.0 | 79 | 17 | US-10-700-922-3 | Sequence 3, Appli |
| 10 | 67 | 100.0 | 99 | 14 | US-10-183-119-2 | Sequence 2, Appli |
| 11 | 67 | 100.0 | 99 | 17 | US-10-486-265-3 | Sequence 3, Appli |
| 12 | 67 | 100.0 | 100 | 9 | US-09-794-975-4 | Sequence 4, Appli |
| 13 | 67 | 100.0 | 100 | 15 | US-10-275-025-1 | Sequence 1, Appli |
| 14 | 67 | 100.0 | 100 | 15 | US-10-275-025-6 | Sequence 6, Appli |
| 15 | 67 | 100.0 | 100 | 15 | US-10-275-025-7 | Sequence 7, Appli |

SUMMARIES

| Result No. | % Query | | | | | Description |
|------------|---------|-------|--------|----|--------|--------------------|
| | Score | Match | Length | DB | ID | |
| 1 | 67 | 100.0 | 82 | 2 | PQ0438 | Alzheimer's diseas |
| 2 | 67 | 100.0 | 695 | 1 | A49795 | Alzheimer's diseas |
| 3 | 67 | 100.0 | 695 | 2 | A27485 | Alzheimer's diseas |
| 4 | 67 | 100.0 | 695 | 2 | S00550 | Alzheimer's diseas |
| 5 | 67 | 100.0 | 747 | 2 | JH0773 | Alzheimer's diseas |

| | | | | | | |
|----|----|-------|-----|---|--------|--------------------|
| 6 | 67 | 100.0 | 770 | 1 | QRHUA4 | Alzheimer's diseas |
| 7 | 57 | 85.1 | 191 | 2 | A35981 | sperm membrane pro |
| 8 | 57 | 85.1 | 511 | 2 | JC1404 | CDEI-box DNA-bindi |
| 9 | 57 | 85.1 | 751 | 2 | A49974 | beta-amyloid precu |
| 10 | 57 | 85.1 | 763 | 2 | A49321 | amyloid beta (A4) |
| 11 | 57 | 85.1 | 765 | 2 | S42880 | amyloid precursor- |
| 12 | 47 | 70.1 | 57 | 2 | A60045 | Alzheimer's diseas |
| 13 | 47 | 70.1 | 57 | 2 | F60045 | Alzheimer's diseas |
| 14 | 47 | 70.1 | 57 | 2 | D60045 | Alzheimer's diseas |
| 15 | 47 | 70.1 | 57 | 2 | E60045 | Alzheimer's diseas |

SUMMARIES

| Result | | % | | | | | |
|--------|-------|-------|-------|--------|--------|--------|-------------|
| No. | Score | Query | Match | Length | DB | ID | Description |
| 1 | 67 | 100.0 | 49 | 2 | 097917 | O97917 | bos taurus |
| 2 | 67 | 100.0 | 79 | 2 | 035463 | O35463 | cricketulus |
| 3 | 67 | 100.0 | 113 | 2 | Q8JH58 | Q8jh58 | chelydra se |
| 4 | 67 | 100.0 | 218 | 2 | Q8BPV5 | Q8bpv5 | mus musculu |
| 5 | 67 | 100.0 | 384 | 2 | Q8BPC7 | Q8bpc7 | mus musculu |
| 6 | 67 | 100.0 | 534 | 2 | 093296 | O93296 | gallus gall |
| 7 | 67 | 100.0 | 693 | 2 | Q98SG0 | Q98sg0 | xenopus lae |
| 8 | 67 | 100.0 | 695 | 2 | Q6RH29 | Q6rh29 | canis famil |
| 9 | 67 | 100.0 | 695 | 2 | Q98SF9 | Q98sf9 | xenopus lae |
| 10 | 67 | 100.0 | 695 | 2 | Q7ZXQ0 | Q7zxq0 | xenopus lae |
| 11 | 67 | 100.0 | 695 | 2 | Q9DGJ8 | Q9dgj8 | gallus gall |
| 12 | 67 | 100.0 | 699 | 2 | 057394 | O57394 | narke japon |
| 13 | 67 | 100.0 | 733 | 2 | Q6P6Q5 | Q6p6q5 | rattus norv |
| 14 | 67 | 100.0 | 747 | 2 | Q91963 | Q91963 | xenopus. ap |
| 15 | 67 | 100.0 | 749 | 2 | Q6NRR1 | Q6nrr1 | xenopus lae |